Claims

[Claim 1]

An equipment server comprising a first communication unit configured to transmit and to receive a message in a common data format to and from a plurality of device servers, wherein each of the device servers is configured to communicate with at least one device in a facility and control the device, and an equipment control unit configured to control a piece of equipment in the facility on the basis of the message received by the first communication unit,

wherein the message includes

third information representing a process related to the message.

[Claim 2]

The equipment server according to claim 1, wherein

the message includes first information for identification of the device.

[Claim 3]

The equipment server according to claim 2, wherein

the equipment control unit causes an access control apparatus that is the piece of equipment in the facility to authenticate the device on the basis of the first information.

[Claim 4]

The equipment server according to any one of claims 1 to 3, wherein

the device is a robot or a mobility device.

[Claim 5]

The equipment server according to any one of claims 1 to 4, wherein

the equipment control unit selects a piece of equipment to be controlled from among a plurality of pieces of equipment in the facility, on the basis of the third information.

[Claim 6]

The equipment server according to any one of claims 1 to 5, wherein

the equipment control unit causes the piece of equipment in the facility to start operation if the third information represents a request to start the operation of the piece of equipment.

[Claim 7]

The equipment server according to any one of claims 1 to 6, wherein

the equipment control unit changes an operating state of the piece of equipment in the facility if the third information represents a request to change the operating state of the piece of equipment.

[Claim 8]

The equipment server according to any one of claims 1 to 7, wherein

the device is a first device that is controlled by a first device server among the plurality of device servers and moves in the facility, and

the equipment control unit registers, in an elevator that is the piece of equipment in the facility, a hall call calling a first car of the elevator if the third information represents the hall call.

[Claim 9]

A communication system comprising an equipment server and a plurality of device servers,

wherein the equipment server includes a first communication unit configured to transmit and to receive a message in a common data format to and from the plurality of device servers, and an equipment control unit configured to control a piece of equipment in a facility on the basis of a message received by the first communication unit,

each of the plurality of device servers includes a second communication unit configured to transmit and to receive the message in the common data format to and from the equipment server, and a device control unit configured to control at least one device in the facility on the basis of a message received by the second communication unit, and

the message includes

third information representing a process related to the message.

[Claim 10]

The communication system according to claim 9, wherein

the message includes first information for identification of the device.

[Claim 11]

The communication system according to claim 9, wherein each of the device servers is configured to communicate with the at least one device in the facility in a data format different from the common data format and control the device.